

Length **645 mm****APPLICATION**

MALMÖ is a high-performance LED street luminaire developed for roads, residential areas, parking facilities and public spaces. Its robust die-cast aluminium housing, IP66 protection and IK08 impact resistance ensure reliable operation in demanding outdoor environments. Premium LEDIL optics provide precise and uniform light distribution while reducing glare and unnecessary light spill. Combined with reliable Philips Xitanium drivers, MALMÖ delivers excellent energy efficiency of up to 170 lm/W and long-lasting performance. Available in two housing sizes and a wide range of power and optical configurations, the luminaire can be adapted to different road classes and project requirements. DALI, 1–10 V, night dimming, CLO and Zhaga Book 18 options make MALMÖ ready for both conventional installations and modern smart-city lighting systems.

20000 lm SYSTEM FLUX	153 W INPUT POWER	131 lm/W EFFICACY	4000K CCT	≥70 CRI	IP66 INGRESS	IK09 IMPACT	100 000 h L90B10
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ELECTRICAL PARAMETERS

Nominal supply voltage	230 (220–240) V AC	Supply voltage range	198–264 V AC
Type of supply current	AC	Supply frequency	50–60 Hz
Rated input power	153W	Power factor (PF)	0.99
Driver efficiency at nominal load	92%	Total harmonic distortion (THDi)	6.50%
Protection class (electric shock)	I	Surge protection (CM / DM)	6/10 kV
Inrush current / time	41A/440µs	Driver type	Philips Xitanium
Number of luminaires on MCB 16A type B	<7		

PHOTOMETRIC PARAMETERS

Luminous flux — system	20000lm	Luminous flux — LED module	23300lm
Luminous efficacy — system	131lm/W	Correlated colour temperature (CCT)	4000K
Colour rendering index Ra (CRI)	≥70	Init. CRI tolerance	±3
Light distribution type	Asymmetric	Luminaire beam spread	Wide beam
Optic type	Asymmetrical street	Light output ratio (LOR)	0.87
Photobiological safety class	RG1	Flicker — Output PstLM / SVM	≤ 0.26 / ≤ 0.07
Colour consistency (SDCM)	< 3 MacAdam steps	Upward light output ratio (ULOR)	0
Luminous flux tolerance	±5 %		

CONSTRUCTION & MATERIALS

Luminaire type	Street	Light source type	LED
Light source replaceable	yes	Cap / base type	Integrated
Housing material	Aluminium alloy	Housing coating	Powder coating
Optic material	PMMA	Optical cover material	Tempered flat glass
Housing colour (RAL)	RAL 7035,DB703	Mounting type	Post-top, side-entry
Cutout size	N/A	Overall dimensions (H × W × L)	645(525)x264x76
Weight (net)	6.5kg	Effective projected area	0.03
Windage projection area (side / below)	0,040 sq.m/ 0,138 sq.m	Number of light sources	3 pcs
Number of gear units	1 pcs		

PROTECTION & ENVIRONMENT

IP rating — enclosure	IP66	Impact resistance class IK	IK09
Operating temperature range	-40...+35 °C	Storage temperature range	-40...+65 °C
Glow-wire test	650 °C / 5 s	Relative humidity (max)	N/A

CONTROL & DIMMING

Dimmable	No	Control protocol / interface	on/off
Dimming range	N/A	Auto-dimming (chronoSTEP)	Yes, 5 step
Built-in motion / presence sensor	On request	Built-in daylight sensor	On request
LED lumen maintenance compensation (CLO)	Available, On request	ZHAGA / NEMA socket compatibility	No

RELIABILITY & LIFETIME

Constant Light Output (CLO)	Available, On request	Light source lifetime	100000@L90 B10h
Lumen maintenance @ 50 000 h	L95B5	Lumen maintenance @ 100 000 h	L90 B10
Control gear failure rate @ 50 000 h	5 %	Control gear failure rate @ 100 000 h	10%
Maximum case temperature Tc	75°C		

CERTIFICATIONS

Warranty period	5 years	CE marking	Yes
ENEC mark	No	ENEC+ mark	No
UKCA marking	Yes	D4i certified (DALI)	No
EU RoHS compliant	Yes	Light source energy efficiency class	C

STANDARDS & SUSTAINABILITY

Applicable standard	EN-IEC 62722-2-2	ETIM Class	Not determined
Recyclable content ratio	Not determined	Non-virgin material ratio	Not determined
Sustainability rating	Not determined	EAN / UPC	Not determined

Environmental data. Embedded carbon, recyclable content and sustainability ratings are provided per article where determined.

Documents. Photometric files (IES / LDT) and installation instructions are available at takton.ee.